CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2012-13

Date: 11.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Providing Cement Concrete to 6th A & 7th A Cross Roads at Chikkasandra in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

AE Ward no-12

Note:

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2012-13 : 11.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Providing Cement Concrete to 6th A & 7th A Cross Roads at Chikkasandra in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013

Date of Testing : 11.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	104	5.20	5.20	94.8	90-100
2.36	227	11.35	16.55	83.5	75-100
1.18	507	25.35	41.90	58.1	55-90
600 Micron	415	20.75	62.65	37.4	35-59
300 Micron	490	24.50	87.15	12.9	8-30
150 Micron	202	10.10	97.25	2.8	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2012-13 : 11.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Providing Cement Concrete to 6th A & 7th A Cross Roads at Chikkasandra in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013

Date of Testing : 11.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25700**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	990	3.85	3.85	96.15	95-100
20	14225	55.35	59.20	40.80	30-70
10	7650	29.77	88.97	11.03	10-35
4.75	2485	9.67	98.64	1.36	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL/STEEL/2012-13

13.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the work	:	Providing Cement Concrete to 6th A & 7th A Cross Roads at Chikkasandra in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013
Date of Test	:	13.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.89	513	545	13.20	O.K	O.K
2	12	1.58	515	549	13.35	O.K	O.K

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ಸಮಾಲೋಚಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರ
ಶಿಕ್ಷಕರ್ಕ ಉಪವಿಭಾಗ, ಡಾಸರಹಳ್ಳಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2012-13

13.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Providing Cement Concrete to 6th A & 7th A Cross Roads at Chikkasandra in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2013	13.04.2013	8.256	385.7	17.14
2	16.03.2013	13.04.2013	8.167	376.2	16.72
3	16.03.2013	13.04.2013	8.324	394.8	17.55

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ಪಶ್ಚಿಮ ವಲಯ, ಬಾಗ, ಬಾಸರಹಳ್ಳಿ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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